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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/782,969

02/20/2004

Hem P. Takiar

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64948 7590 01/17/2007
VIERRA MAGEN/SANDISK CORPORATION
575 MARKET STREET
SUITE 2500
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EXAMINER

DINH, TUAN T

ART UNIT

PAPER NUMBER

2841

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

01/17/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/782,969

Applicant(s)

TAKIAR, HEM P.

Examiner

Tuan T. Dinh

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 52,53,55,56,58,60-73,80 and 82-86 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 52,53,55,56,58,60-73,80 and 82-86 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/06, 11/06</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 52-53, 55-56, 58, 61-73, 80, and 82-86 are rejected under 35 U.S.C. 102(b) as being anticipated by Corisis et al. (U.S. Patent 6,462,273, hereafter Corisis).

As to claims 52-53, 58, and 62, Corisis discloses a non-volatile memory system as shown in figures 1-3, comprising:

a card (10, column 3, line 66) having top, bottom, rear, and two side surfaces, said card includes a set of contacts (20, column 4, line 22) on the bottom surface, said top surface having a raise portion (18A, see figure 1F), one of said side surfaces including a notch portion (38) and an angle portion (figure 1A shows an angle portion on top);

a circuit board (12) in said card;

a plurality of non-volatile storage elements (14) and passive electrical elements (40), which have capacitor (claim 58), see figure 1G, and figure 3, enclosed within said card and connected to said circuit board, said passive electrical elements (13) are positioned in a part of said card at least partially defined by said raised portion (1b).

As to claims 63-68, 70, 72, 80, Corisis discloses a non-volatile memory system (1) as shown in figures 1-3, comprising:

a card (10) having a first dimension (length) and a second dimension (width) and first and second surfaces (top and bottom surfaces), said card having a first thickness along a first portion of said length and a second thickness along a second portion defined as a raise portion (18A) of said length, said second thickness is greater than said first thickness; said card (10) having side surfaces, one includes a notch (38) and a angle (an angle on an edge of the card 10)

a plurality of non-volatile storage elements (14), which being flash memory devices enclosed within said card; and passive electrical elements (40), which are capacitors enclosed within said card; said passive electrical elements are positioned in said second portion, said passive electrical elements are in electrical communication with said non-volatile storage elements.

As to claims 55-56, 69, and 71, Corisis further comprising: a controller element (14) enclosed within said card (10) and connected to a circuit board (12), and are in communication with the passive elements (40), see figures 1, 3; and a set of electrical contacts (20) on an external surface of said card, said set of electrical contacts are in communication with said controller (memory controller14).

As to claims 61, 73, Corisis discloses an encapsulant (16) formed on the components (14, 40).

As to claims 82-86, Corisis discloses a non-volatile memory system as shown in figures 1-3 comprising: a circuit board (12) having a passive component and a flash

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memory chip (40, 14) mounted and connected on, a molding material (16) formed on a card (10) encapsulated the components, the card having top, bottom, rear, and two side surfaces, one of the side surface having an angle portion and notch (38), the top portion having a raise portion (18A), the card having two sections, the second section is thicker than a first section to accommodate the passive component.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 60 is rejected under 35 U.S.C. 103(a) as being unpatentable over Corisis et al. ('273) in view of Ringer et al. (U.S. Patent 5,408,386).

As to claim 60, Corisis discloses all of the limitations of the claimed invention, except for said raised portion providing a grip to grab said card.

Ringer et al. shows a card (13) as shown in figures 3-4 comprising a raise portion (24) having a grip to grab the card.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a raise portion provided with a grip to grab a card as taught by Ringer employed in the system of Corisis et al. in order to hold when insert or remove the card into the external connection device.

Response to Arguments

5. Applicant's arguments with respect to claims 52-53, 55-56, 58, 60-73, 80, 82-86 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reichard Dean can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Tuan Dinh', with a stylized, cursive script.

Tuan Dinh
January 04, 2007.